UNITED STATES DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE ECOLOGICAL SITE DESCRIPTION

ECOLOGICAL SITE CHARACTERISTICS

Site Type: Rangeland
Site ID: _R051XB008NM (WP-1, HV-1,2)
Site Name: Limy
Precipitation or Climate Zone: 9 to 14 inches
Phase:

PHYSIOGRAPHIC FEATURES

Narrative:		
This site occurs on nearly level to g vary from 1 to 15 percent but are g 8,400 feet above sea level.		
Land Form: 1. Alluvial flat		
2. Mesa		
3.		
Aspect: 1. N/A		
1. N/A 2.		
3.		
	Minimum	Maximum
Elevation (feet)	6,900	8,400
Slope (percent)	1	15
Water Table Depth (inches)	N/A	N/A
Flooding:	Minimum	Maximum
Frequency	N/A	N/A
Duration	N/A	N/A
Ponding:	Minimum	Maximum
Depth (inches)	N/A	N/A
Frequency	N/A	N/A
Duration	N/A	N/A
Runoff Class:		
Negligible to medium.		

CLIMATIC FEATURES

Narrative:

Mean annual precipitation varies from 9 to 14 inches. Deviations of 4 inches or more are quite common. Approximately 60 percent of the precipitation is received during the native plant growth period, April through September. June is the driest month. During July, August and September 4 to 5 inches of precipitation influence the presence and production of warm-season plants. Fall and spring moisture is conducive to the growth of cool-season herbaceous plants. Maximum shrub growth also occurs during this time. Summer precipitation is chracterized by brief, localized thunderstorms. Winter moisture usually occurs as snow or light rain.

Mean annual temperature varies from 64 degrees F in July to 21 degrees F in January. The maximum is near 100 degrees F. The minimum is near 40 degrees F. The average last killing frost in the spring is around mid-May. The first killing frost in the fall is late September or early October. The frost-free period is approximately 120 to 140 days, but freezing temperatures have been recorded for every month except July and August. Temperatures are generally conducive for herbaceous plant growth from April through September.

Wind velocities are relatively light most of the year with stronger winds occurring in spring and early summer. These stronger winds, which may exceed 25 miles per hour, increase transpriation rates of plants and rapidly dry the soil surface. Also, small soil particles are often displaced by the stronger winds, which can result in structural damage to native plants, particularly young seedlings.

Climate data was obtained from the WCCR web site. Using 50% probabilities for freeze-free and frost-free seasons at 28.5 degrees F and 32.5 degrees F respectively.

	Minimum	Maximum
Frost-free period (days):	104	119
Freeze-free period (days):	134	145
Mean annual precipitation (inches):	9	14

Monthly moisture (inches) and temperature (⁰F) distribution:

Monthly moisture (inches) and temperature (ir) distribution:						
	Precip. Min.	Precip. Max.	Temp. Min.	Temp. Max.		
January	.52	1.79	7.6	45.6		
February	.43	1.56	10.7	50.4		
March	.67	1.92	16.8	56.8		
April	.52	1.26	22.7	66.0		
May	.62	1.26	28.8	75.5		
June	.49	1.21	35.1	85.8		
July	1.54	3.41	42.1	88.9		
August	1.86	3.72	41.8	85.8		
September	1.08	1.86	34.6	78.8		
October	1.01	1.86	25.3	68.6		
November	.71	1.60	16.2	56.0		
December	.56	1.49	9.3	47.0		

Climate Sta	ations:						
Station ID	292241	Location	Cuba, NM	From:	Period 01/01/14		12/31/01
		-					
Station ID	293422	_ Location	Gallup FAA-AP, NM	From:	01/01/21	10:	12/31/01
		_					
INFLUE	NCING WATER	R FEATU	<u>IRES</u>				
Narrative:							
This site is i	not influenced by wa	ater from a	wetland or stream.				
	Ž						
Wetland de	escription:						
	System		Subsystem		Class		
	N/A						
If Riverine	Wetland System ei	nter Rosge	en Stream Tyne				
N/A	Wedand System C	itter Rosge	in Stream Type.				
REPRES	ENTATIVE SOI	IL FEAT	<u>'URES</u>				
Narrative:							
and are well The soil pro	drained. The surface	ce and sub be high in	oughout the profile. The soil textures range from coarse fragments. Per is low to medium.	n sandy	loams to cla	ay loa	ams.
Parent Mat	terial Kind: Mari	ine deposit	s				
		xed - calca					
Surface Text 1. Clay loa							
2. Sandy lo							
	xture Modifier:						
1. Gravel							
2.							

Subsurface Texture Group: Loamy	y		
Surface Fragments <=3" (% Cover):	15 to 35		
Surface Fragments >3" (% Cover): N/A			
Subsurface Fragments <= 3" (%Volum	me) : 15 to 35		
Subsurface Fragments >= 3" (%Volun	N/A		
Subsurface Magnients > -3 (70 volum	me): N/A		

	Minimum	Maximum
Drainage Class:	Well	Well
Permeability Class:	Moderate	Moderate
Depth (inches):	20	60
Electrical Conductivity (mmhos/cm):	Unknown	Unknown
Sodium Absorption Ratio:	Unknown	Unknown
Soil Reaction (1:1 Water):	Unknown	Unknown
Soil Reaction (0.1M CaCl2):	Unknown	Unknown
Available Water Capacity (inches):	9	12
Calcium Carbonate Equivalent (percent):	Unknown	Unknown

PLANT COMMUNITIES

Ecological Dynamics of the Site:	
Plant Communities and Transitional Pathways (diagram)	
runt Communities and Transitional rathways (diagram)	

Plant Community Nan	ne: Historic Climax Pl	ant Community			
Plant Community Seq	uence Number: 1	Narrative Label	: НСРС		
Plant Community Narrative: Historic Climax Plant Community Winterfat dominates the community with perennial grasses well distributed throughout the site. Other shrubs, such as fourwing saltbush, are scattered throughout the site. Annual grasses and forbs are in relative abundance in spring months but generally are a minor component on the this site. *On very moist sites and sites with finer-textured soils, western wheatgrass would be the dominant perennial grass. On drier sites and sites with coarser-testured soils, Indian ricegrass would be the dominat perennial grass.					
Canopy Cover:					
Trees, shrubs and half-s	hrubs	40 %			
•	Percent of Surface Area)				
Grasses & Forbs	1 croditi of Sarrace 1 from)	. 22			
Bare ground		53			
Surface gravel		10			
Surface cobble and ston	e	0			
Litter (percent)		15			
Litter (average depth in	cm)	1			
Enter (average depui in	C 111.)				
Plant Community Ann	nual Production (by plan	nt type):			
	Annual Produ	iction (lbs/ac)			
Plant Type	Low	RV	High		
Grass/Grasslike	144	264	384		

		(1000)	
Plant Type	Low	RV	High
Grass/Grasslike	144	264	384
Forb	15	28	40
Tree/Shrub/Vine	120	220	320
Lichen			
Moss			
Microbiotic Crusts			
Total	300	550	800

<u>Plant Community Composition and Group Annual Production</u>: Plant species are grouped by annual production **not** by functional groups.

Plant Type - Grass/Grasslike

Group	Scientific		Species Annual	Group Annual
Number	Plant Symbol	Common Name	Production	Production
1	PASM	Western Wheatgrass*	110 - 138	110 - 138
	ACHY	Indian Ricegrass*		
2	HECO26	Needleandthread	28 - 44	28 - 44
	HENE5	New Mexico Feathergrass		
3	ELEL5	Bottlebrush Squirreltail	28 - 44	28 - 44
4	BOGR2	Blue Grama	17 - 39	17 - 39
	PLJA	Galleta		
5	SPCR	Sand Dropseed	17 - 28	17 - 28
	2GRAM	Othergrasses		

Plant Type - Forb

Group Number	Scientific Plant Symbol	Common Name	Species Annual Production	Group Annual Production
6	ARFR4	Fringed Sagewort	17 – 39	17 – 39
	ERIOG	Wildbuckwheat		
	PLPA2	Wooly Indianwheat		
	2FORBS	Other Forbs		

Plant Type – Tree/Shrub/Vine

Group Number	Scientific Plant Symbol	Common Name	Species Annual Production	Group Annual Production
7	KRLA2	Winterfat	135 - 193	135 - 193
8	ATCA2	Fourwing Saltbush	17 - 28	17 - 28
9	ERNAN5	Rubber Rabbitbrush	17 - 28	17 - 28
	GUSA2	Broom Snakeweed		
10	YUCCA	Yucca spp.	6 - 28	6 - 28
	2SD	Other Shrubs		

Plant Type - Lichen

Group Number	Scientific Plant Symbol	Common Name	Species Annual Production	Group Annual Production
_				_

Plant Type - Moss

Group Number	Scientific Plant Symbol	Common Name	Species Annual Production	Group Annual Production
114111001	2 14110 25 111201	Common 1 wants	110000000	1100000

Plant Type - Microbiotic Crusts

Group Number	Scientific Plant Symbol	Common Name	Species Annual Production	Group Annual Production

Other species include: threeawn spp., muttongrass, prairie junegrass, spike muhly, ring muhly, sideoats grama, sixweeks fescue, false buffalograss, threadleaf groundsel, globemallow spp., aster and cactus spp.

Plant Growth Curves

Growth Curve ID 0005NM

Growth Curve Name: HCPC

Growth Curve Description: Winterfat dominated community with well distributed

perennial grasses.

Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
0	0	3	5	10	10	25	30	12	5	0	0

ECOLOGICAL SITE INTERPRETATIONS

Animal Community:

Habitat for Wildlife:

This site provides habitats which support a resident animal community that is characterized by pronghorn antelope, coyote, white-tailed jackrabbit, deer mouse, horned lark and prairie rattlesnake.

Typical summer resident birds include sage thrasher, vesper, sage and brewer sparrows. Antelope were absent from approximately 1910 until the early 1940's when wild captured animals were transplanted. Mule deer and elk will forage seasonally aroung the peripheries of this site.

Bald eagle and peregrine falcons may use this site for hunting when it is located near the Rio Grande Gorge.

Hydrology Functions:

The runoff curve numbers are determined by field investigations using hydrologic cover conditions and hydrologic soil groups.

Hydrologic Interpretations					
Soil Series	Hydrologic Group				
Hernandez	В				
Lubon	?				
Kim	В				
Travelers	?				

Recreational Uses:

This site has little recreational value other than for horseback riding and hunting. It has little aesthetic appeal and natural beauty.

Wood Products:

This site produces no significant wood products in the potential plant community.

Other Products:

Grazing:

Approximately 85 percent of the vegetation produced on this site are suitable for grazing or browsing by domestic livestock and wildlife. Grazing distribution generally is not a problem if adequate waterings are provided.

Continuous grazing leads to a repetitive, selective grazing of the most desirable species which reduces their vigor and productivity. The result is a deterioration of the potential plant community. Winterfat is especially susceptible to reduced vigor as a result of continuous winter grazing. Continuous summer grazing is detrimental to the perennial grass component. A planned grazing system, which prevents the repetitive grazing of selected species and allows periodic replinishment of root carbohydrates is desirable.

Other Information:	
Guide to Suggested Initial Stocking	Rate Acres per Animal Unit Month
Similarity Index	Ac/AUM
100 - 76	4.2 - 5.6
75 – 51	5.5 – 8.3
50 – 26	8.2 – 16.6
25 – 0	16.6+

Plant Part	Code	Species Preference	Code
Stems	S	None Selected	NS
Leaves	L	Preferred	P
Flowers	F	Desirable	D
Fruits/Seeds	F/S	Undesirable	U
Entire Plant	EP	Not Consumed	NC
Underground Parts	UP	Emergency	E
		Toxic	T

Plant Preference by Animal Kind:

Animal Kind: Livestock

Animal Type: Cattle

		Plant		Forage Preferences										
Common Name	Scientific Name	Part	J	F	M	A	M	J	J	A	S	О	N	D
Western Wheatgrass	Pascopyrum smithii	EP	D	D	P	P	P	D	D	D	D	D	D	D
Indian Ricegrass	Achnatherum hymenoides	EP	P	P	P	P	P	P	P	P	P	P	P	P
Needleandthread	Hesperostipa comata	EP	D	D	P	P	P	D	D	D	D	D	D	D
Fourwing Saltbush	Atriplex canescens	L/S	P	P	P	P	P	D	D	D	D	D	D	P
Winterfat	Krascheninnikovia lanata	L/S	D	D	P	P	P	P	P	P	D	D	D	D

SUPPORTING INFORMATION

Site Name Site ID Site Narrative Similar sites: Site Name Site ID Site Narrative State Correlation: This site has been correlated with the following sites: Inventory Data References: Data Source # of Records Sample Period State County Type Locality: State: New Mexico County: Taos Latitude: Longitude: Township: Range: Section: Is the type locality sensitive? Yes No General Legal Description: Relationship to Other Established Classifications: Other References: Data collection for this site was done in conjunction with the progressive soil surveys within the New Mexico and Arizona Plateaus and Mesas 36 Major Land Resource Area of New Mexico. This site has been mapped and correlated with soils in the following soil surveys: Taos Characteristic Soils Are: Hernandez Lubon Other Rosils included are: Kim Travelers Site Description Approval: Author Date Approval Date Don Sylvester Don Sylvester Site Description Revision: Author Date Approval Date Date Approval Date Date Date Date Approval Date Date Date Date Date Date Approval Date Da	Associated sites:								
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